

Claims

I Claim:

1. A method for providing a foil, comprising providing a foil having an inward portion, a tip portion, a high pressure surface, a low pressure surface, a leading edge and a trailing edge, said foil having a vortex generator connected to said foil adjacent said tip portion, said vortex generator having a substantially chordwise alignment, said vortex generator having an inward surface, an outward surface and a lower end portion, said inward surface having an inward directed camber arranged to create a region of reduced pressure adjacent said inward surface, said region of reduced pressure being sufficient to create an inward spanwise flow condition below said lower end which is substantially directed from said tip portion of said foil toward said inward portion of said foil.
2. A foil tip comprising a tip droop extending away from a high pressure surface of a foil, said tip droop having an inward droop surface, an outward droop surface, said inward droop surface having inward directed lift inducing camber arranged to create an inward spanwise flow condition adjacent said tip droop.
3. A vortex generator comprising a substantially streamwise foil extending from a surface of a predetermined body, said streamwise foil having a substantially streamwise alignment, said substantially streamwise foil having a lower pressure surface, a higher pressure surface, a root portion adjacent said surface and an outer end portion spaced from said surface and said root portion, said low pressure having a lift inducing camber arranged to create a lifting force that is substantially transverse to said substantially streamwise alignment, said lift inducing camber being sufficient to create a substantially transverse flow condition adjacent said outer end portion of said vortex generator, said substantially transverse flow condition occurring substantially in a direction from said higher pressure surface toward said lower pressure surface, said transverse flow condition being sufficient to permit said streamwise foil to form a substantially streamwise vortex.